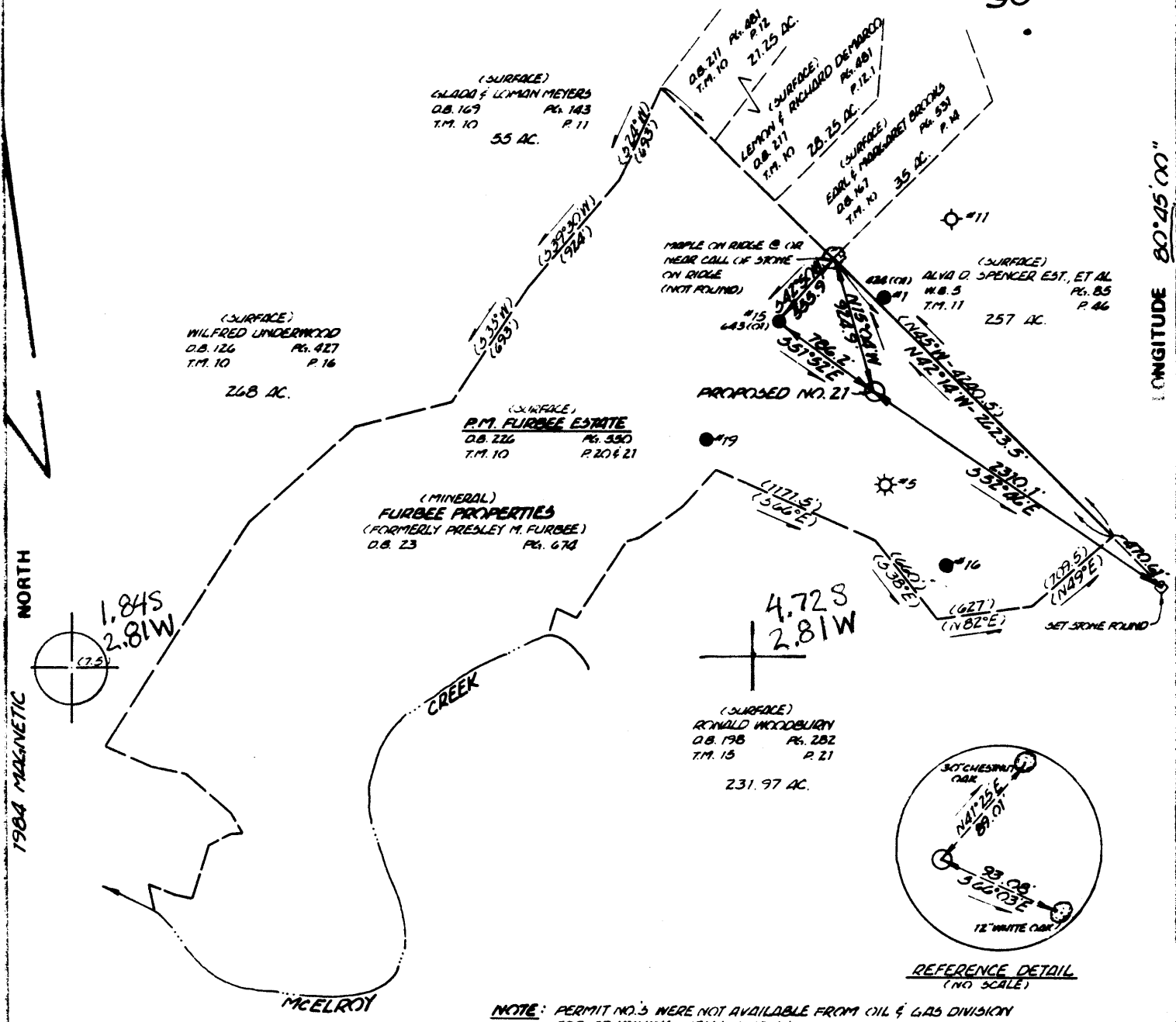


NOTE: BEARINGS & DISTANCES IN () ARE DEED BEARINGS & DISTANCES.

LATITUDE 39°27'30"
39°30'

LONGITUDE 80°45'00"



NOTE: PERMIT NO.'S WERE NOT AVAILABLE FROM OIL & GAS DIVISION FOR ADJOINING WELLS SHOWN.

FILE NO. BACK-23
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1' IN 2000'
 PROVEN SOURCE OF ELEVATION EXISTING WELL - ALVA D. SPENCER, ET AL NO. 23 EL.: 1084

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Bruce Hagan
 R.P.E. _____ L.L.B. 577



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE APRIL 17, 19 84
 OPERATOR'S WELL NO. P.M. FURBEE NO. 21
 API WELL NO. _____
47 095 - 1077
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1087.2' WATER SHED MCELROY CREEK OF MIDDLE ISLAND CREEK
 DISTRICT MCELROY 5 COUNTY TYLER
 QUADRANGLE SHURLEY 607 WEST UNION 133 NE 3
 SURFACE OWNER P.M. FURBEE ESTATE ACREAGE 63.58
 OIL & GAS ROYALTY OWNER FURBEE PROPERTIES LEASE ACREAGE 300
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

JUN 11 1984

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION BIG INJUN ESTIMATED DEPTH 2272'
 WELL OPERATOR QUAKER STATE OIL REF. CORP. DESIGNATED AGENT CARL J. CARLSON
 ADDRESS P.O. BOX 1327 721 ADDRESS P.O. BOX 1327
PARKERSBURG, W.V. 26101 PARKERSBURG, W.V. 26101

RECEIVED

OCT 22 1984



IV-35 (Rev 8-81)

OIL & GAS DIVISION DEPT. OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date October 19, 1984 Operator's Well No. #21 Farm P.M. Furbee API No. 47 - 095 - 1077

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil x / Gas / Liquid Injection / Waste Disposal (If "Gas," Production / Underground Storage / Deep / Shallow)

LOCATION: Elevation: 1087.2' Watershed McElroy Creek of Middle Island Creek District: McElroy County Tyler Quadrangle Shirley 7.5'

COMPANY QUAKER STATE OIL REFINING CORPORATION

ADDRESS P.O. Box 1327; Parkersburg, WV 26101

DESIGNATED AGENT Carl L. Carlson

ADDRESS P.O. Box 1327; Parkersburg, WV 26101

SURFACE OWNER Furbee Properties

ADDRESS 1474 Grandview Ave.; Columbus, OH 43212

MINERAL RIGHTS OWNER Furbee Properties

ADDRESS Same as above

OIL AND GAS INSPECTOR FOR THIS WORK

Robert Lowther ADDRESS General Del., Middlebourne, WV 26149

PERMIT ISSUED June 04, 1984

DRILLING COMMENCED July 26, 1984

DRILLING COMPLETED August 13, 1984

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cond., 13-10", 9 5/8, 8 5/8 (783'), 7, 5 1/2 (1993'), 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Big Injun Depth 2061 - 2176 feet

Depth of completed well 2190 feet Rotary XX / & Cable Tools XX

Water strata depth: Fresh N/A feet; Salt N/A feet

Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 2065 - 2155 feet

Gas: Initial open flow --- Mcf/d Oil: Initial open flow --- Bbl/d

Final open flow --- Mcf/d Final open flow 1 Bbl/d

Time of open flow between initial and final tests --- hours

Static rock pressure Vacuum psig (surface measurement) after --- hours shut in

(If applicable due to multiple completion--)

Second producing formation N/A Pay zone depth --- feet

Gas: Initial open flow --- Mcf/d Oil: Initial open flow --- Bbl/d

Final open flow --- Mcf/d Oil: Final open flow --- Bbl/d

Time of open flow between initial and final tests --- hours

Static rock pressure --- psig (surface measurement) after --- hours shut in

NOV 19 1984

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Shot from 2066 - 2160' with 190 qts. nitroglycerine.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand and shale			0	750	
Sand			750	762	
Shale			762	815	
Sand			815	842	
Silt and shale			842	1290	
Lime			1290	1318	
Shale			1318	1368	
Lime			1368	1418	
Sand & shale			1418	1654	
Sand			1654	1677	
Shale			1677	1740	
Sand			1740	1782	
Silt and shale			1782	1944	
Little Lime			1944	1958	
Shale			1958	1974	
Lime			1974	1980	
Shale			1980	1986	
Big Lime			1986	2061	
<u>Big Injun</u>			2061	2176	
Shale			2176	<u>2190</u>	T.D.

(Attach separate sheets as necessary)

QUAKER STATE OIL REFINING CORPORATION
Well Operator

By: Jeffrey W. Hill Jeffrey W. Hill,
Date: October 19, 1984 Geologist

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ~~and~~, encountered in the drilling of a well."



1) Date: May 15, 19 84
 2) Operator's Well No. P.M. FURBEE #21
 3) API Well No. 47 - 095 - 1077
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas _____
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow _____) **OMI**
- 5) LOCATION: Elevation: 1087.2 Watershed: MCCELROY CREEK OF MIDDLE ISLAND CREEK
 District: MCCELROY County: TYLER Quadrangle: SHIRLEY 7.5'
- 6) WELL OPERATOR QUAKER STATE OIL REF. CORP. 7) DESIGNATED AGENT CARL J. CARLSON
 Address P.O. BOX 1327 Address P.O. BOX 1327
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name ROBERT LOWTHER 9) DRILLING CONTRACTOR:
 Address General Delivery Name UNKNOWN
Middlebourne, WV 26149 (304) 758-4764 Address _____
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, BIG INJUN
- 12) Estimated depth of completed well, 2272' feet
- 13) Approximate trata depths: Fresh, 337' feet; salt, 1297' feet.
- 14) Approximate coal seam depths: 752' - 755' Is coal being mined in the area? Yes _____
- 15) CASING AND TUBING PROGRAM

RECEIVED
 MAY 24 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

CASING OR TUBING TYPE	SPECIFICATIONS						FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well			
Conductor										
Fresh water	8 5/8	H-40	20	X		785'	785'	c.t.s. NEAT	Kinds	
Coal									Sizes	
Intermediate										
Production	5 1/2	J-55	14	X		2019'	2019'	750'	Depths set	
Tubing	2	J	4.5	X			2122'			
Liners									Perforations:	
									Top Bottom	

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-095-1077 Date June 4, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires June 4, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET	Agent: <input checked="" type="checkbox"/>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>10813</u>
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[Signature]
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File